1	<u>CLAIMS</u>		
2			
3	1. A barrier used during testing of a water line including an upstream pipe and		
4	downstream pipe, said barrier comprising		
5	a cylindrical wall, and		
6	a selectively removable planar disk disposed within the wall membe		
7	substantially at a right angle to the cylindrical wall,		
8	said planar disk forming within the wall member on opposite sides of said		
9	planar disk a first section sized to receive the upstream pipe and a second section		
10	sized to receive the downstream pipe,		
11	said planar disk having attached thereto a piercing assembly including		
12	a piercing member having a pointed end, said piercing membe		
13	mounted to planar disk to be pulled towards the planar disk to pierce sai		
`14	planar disk, and		
15	a pull line connected to the piercing assembly to enable a user whil		
16	the barrier is installed in a water line to pull the piercing member towards th		
17	planar disk and pierce said planar disk.		
18			
19	The barrier of Claim 1 where the planar disk includes a score line.		
20			
21	3. The barrier of Claim 2 where the pointed end of the piercing member reside		
22	along the score line.		
23			
24	4. The barrier of Claim 2 where the score line emanates helically from a position		
25	proximate the geometric center of the planar disk.		
26			
27	5. The barrier of Claim 2 where the score line substantially traverses the		
28	circumference of the disk.		
29			
30	6. The barrier of Claim 1 where the piercing member is on one side of the plans		
31	disk and a pull member is on the other side of the planar disk, said pull line being		
32	connected to the pull member.		

The barrier of Claim 6 where the piercing member has a flat portion residing 1 7. on said one side of the planar disk and a cantilevered portion terminating in said 2 3 pointed end. 4 5 The barrier of Claim 1 where the cylindrical wall and planar disk are a single 8. piece body molded as a unitary structure and made of a rubber or plastic. 6 7 A barrier used during testing of a water line including an upstream pipe and a 8 9. downstream pipe, each pipe having a predetermined circumferential configuration, 9 10 said barrier comprising a single piece body molded as a unitary structure including 11 an upstream wall section having an internal circumferential 12 configuration substantially the same as the circumferential configuration of the 13 14 upstream pipe and sized to receive the upstream pipe, a downstream wall section having an internal circumferential 15 configuration substantially the same as the circumferential configuration of the 16 17 downstream pipe and sized to receive the downstream pipe, a selectively removable disk disposed between the upstream wall 18 section and the downstream wall section to block the flow of water between 19 20 the wall sections. said planar disk having attached thereto a piercing assembly including 21 a piercing member having a pointed end, said piercing member 22 23 mounted to planar disk to be pulled towards the planar disk to pierce 24 said planar disk, and 25 a pull line connected to the piercing assembly to enable a user while the barrier is installed in a water line to pull the piercing member 26 27 towards the planar disk and pierce said planar disk. 28 29 The barrier of Claim 9 where the planar disk includes a score line. 10. 30 31 The barrier of Claim 10 where the pointed end of the piercing member resides 11.

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along the score line.

1	12.	The barrier of Claim 10 where the score line emanates helically from a		
2	position proximate the geometric center of the planar disk.			
3				
4	13.	The barrier of Claim 10 where the score line substantially traverses the		
5	circur	mference of the disk.		
6		·		
7	14.	The barrier of Claim 10 where the piercing member is on one side of the		
8	planar disk and a pull member is on the other side of the planar disk, said pull line			
9	being connected to the pull member.			
10				
11	15.	The barrier of Claim 14 where the piercing member has a flat portion residing		
12	on said one side of the planar disk and a cantilevered portion terminating in said			
13	pointed end.			
14				
15	16.	A barrier used during testing of a water line including an upstream pipe and a		
16	down	stream pipe, each pipe having a predetermined circumferential configuration,		
17	said b	parrier comprising		
18		a body including		
19		an upstream wall section having an internal circumferential		
20		configuration substantially the same as the circumferential configuration of the		
21		upstream pipe and sized to receive the upstream pipe,		
22		a downstream wall section having an internal circumferential		
23		configuration substantially the same as the circumferential configuration of the		
24		downstream pipe and sized to receive the downstream pipe,		
25		a selectively removable disk disposed between the upstream wall		
26		section and the downstream wall section to block the flow of water between		
27		the wall sections,		
28		said planar disk including a score line and having attached thereto a		
29		piercing assembly including		
30		a piercing member having a pointed end residing along the		
31		score line and mounted on one side to planar disk to be pulled towards		
32		the planar disk to pierce said planar disk,		
33		a pull member is on the other side of the planar disk, and		

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1	a pull line connected to the pull member to enable a user while		
2	the barrier is installed in a water line to pull the piercing member		
3	towards the planar disk and pierce said planar disk.		
4			
5	17. The barrier of Claim 16 where the score line emanates helically from a		
6	position proximate the geometric center of the planar disk.		
7			
8	18. The barrier of Claim 16 where the score line substantially traverses the		
9	circumference of the disk.		
10			
11	19. The barrier of Claim 16 where the piercing member has a flat portion residing		
12	on said one side of the planar disk and a cantilevered portion terminating in said		
13	pointed end.		
14			
15	20. A water line comprising		
16	an upstream pipe and a downstream pipe connected together by a single		
17	piece body test barrier molded as a unitary structure, each pipe having a		
18	predetermined circumferential configuration, said barrier comprising		
19	a single piece body molded as a unitary structure including		
20	an upstream wall section having an internal circumferential		
21	configuration substantially the same as the circumferential configuration of the		
22	upstream pipe and the upstream pipe received therein,		
23	a downstream wall section having an internal circumferential		
24	configuration substantially the same as the circumferential configuration of the		
25	downstream pipe and the downstream pipe received therein,		
26	a selectively removable disk disposed between the upstream wall		
27	section and the downstream wall section to block the flow of water between		
28	the wall sections,		
29	said planar disk having attached thereto a piercing assembly including		
30	a piercing member having a pointed end, said piercing member		
31	mounted to planar disk to be pulled towards the planar disk to pierce		
32	said planar disk, and		
33	a pull line connected to the piercing assembly to enable a user		

while the barrier is installed in a water line to pull the piercing member towards the planar disk and pierce said planar disk.